

Title (en)

FIELD SEQUENTIAL LIGHT SOURCE MODULATION FOR A DIGITAL DISPLAY SYSTEM

Title (de)

TEILBILDSEQUENTIELLE LICHTQUELLENMODULATION FÜR EIN DIGITALES DISPLAY-SYSTEM

Title (fr)

MODULATION D'UNE SOURCE LUMINEUSE À SÉQUENCE DE CHAMP POUR SYSTÈME D'AFFICHAGE NUMÉRIQUE

Publication

**EP 1958023 A4 20100414 (EN)**

Application

**EP 06826667 A 20061026**

Priority

- US 2006041677 W 20061026
- US 29417305 A 20051205

Abstract (en)

[origin: US2007035707A1] A digital display system consists of an image modulator and multiple light modulators. An image processing system processes an incoming data stream, scans processed data to an image modulator and controls for the light modulators. Other user inputs and sensors are used to affect the processing and controls. The timing for scanning the processed data into the image modulators is controlled along with the intensity and wavelength of the light modulators. The display system may implement a spatial and temporal image processing, digital shutter controls, rolling shutter controls, sequential color output, adaptive dynamic sensor feedback, frame rate matching, motion compensated field sequencing and a variety of other techniques to produce a high quality display output. The resulting display has improved image consistency, enhanced color gamut, higher dynamic range and is better able to portray high motion content.

IPC 8 full level

**G03B 21/00** (2006.01); **G03B 21/14** (2006.01); **G03B 21/26** (2006.01); **G09G 3/34** (2006.01); **G09G 3/36** (2006.01); **G09G 5/10** (2006.01); **H04N 5/64** (2006.01); **H04N 9/12** (2006.01); **H04N 9/31** (2006.01)

CPC (source: EP KR US)

**G02F 1/133** (2013.01 - KR); **G03B 21/005** (2013.01 - EP US); **G03B 21/2033** (2013.01 - EP US); **G03B 21/206** (2013.01 - EP US); **G03B 21/26** (2013.01 - EP US); **G09G 3/03** (2020.08 - EP); **G09G 3/20** (2013.01 - KR); **G09G 3/32** (2013.01 - KR); **G09G 3/342** (2013.01 - EP US); **H04N 5/7416** (2013.01 - EP US); **H04N 9/312** (2013.01 - EP US); **H04N 9/3155** (2013.01 - EP US); **G09G 3/3413** (2013.01 - EP US); **G09G 2310/0235** (2013.01 - EP US); **G09G 2310/024** (2013.01 - EP US); **G09G 2320/041** (2013.01 - EP US); **G09G 2320/045** (2013.01 - EP); **G09G 2320/0666** (2013.01 - EP US); **G09G 2360/144** (2013.01 - EP US); **G09G 2360/145** (2013.01 - EP US)

Citation (search report)

- [XY] US 2004246275 A1 20041209 - YOSHIHARA TOSHIAKI [JP], et al
- [Y] US 6069676 A 20000530 - YUYAMA HARUMI [JP]
- See references of WO 2007067270A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**US 2007035707 A1 20070215**; **US 7364306 B2 20080429**; EP 1958023 A2 20080820; EP 1958023 A4 20100414; JP 2009518682 A 20090507; KR 20080080614 A 20080904; US 2012327139 A1 20121227; US 8279138 B1 20121002; US 8698701 B2 20140415; WO 2007067270 A2 20070614; WO 2007067270 A3 20070913

DOCDB simple family (application)

**US 29417305 A 20051205**; EP 06826667 A 20061026; JP 2008544339 A 20061026; KR 20087016320 A 20080704; US 2006041677 W 20061026; US 201213600165 A 20120830; US 2792308 A 20080207